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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/724,056	12/01/2003	Tetsuo Kunii	402887	1470	
23548 7	7590 02/09/2005	EXAMINER		INER	
LEYDIG VOIT & MAYER, LTD			VU, HUNG K		
700 THIRTEENTH ST. NW SUITE 300			ART UNIT	PAPER NUMBER	
	WASHINGTON, DC 20005-3960				
			DATE MAILED: 02/09/200	DATE MAILED: 02/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/724,056	KUNII ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Hung Vu	2811			
The MAILING DATE of this communication app					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 17 De	ecember 2004.				
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) 2 and 4-6 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 3 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) ☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/01/03.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Invention of Embodiment I, Claims 1 and 3, in the reply filed on 12/27/04 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Applicant's election without traverse of Invention of Embodiment I, Claims 1 and 3, in the reply filed on 12/27/04 is acknowledged.

Claims 2 and 4-6 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Invention, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on 12/27/04.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Noguchi et al. (PN 6,483,176).

Noguchi et al. discloses, as shown in Figures 1-4, a plurality of semiconductor elements, each semiconductor elements having first and second main electrodes (7,7) and control electrode (8);

a semiconductor substrate (10) having a first principal plane on which the first and second main electrodes and the control electrode are located;

a film (13) over the first main electrode and the control electrode, insulating the first main electrode and the control electrode from the second main electrode, and is made of a polymer with a low dielectric constant (Col. 19, lines 24-32);

a chip surface electrode (3) over the film and the second main electrode and connected to a ground potential, wherein the second main electrode is provide with the ground potential through the chip surface electrode (see Figures 1-4).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Noguchi et al. (PN 6,483,176) in view of Zhao (PN 6,071,809).

Noguchi et al. discloses the claimed invention including the semiconductor device as recited in the rejection above. Noguchi et al. further discloses the semiconductor substrate is made of

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silicon. Noguchi et al. does not disclose the semiconductor substrate is one of SiC and sapphire. However, Zhao discloses a semiconductor substrate (302) is one of silicon, SiC and sapphire, etc. Note Figures 3L and 5-6 and Col. 5, lines 11-24. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the semiconductor substrate of Noguchi et al. being one of SiC and sapphire, such as taught by Zhao because silicon, SiC and sapphire are commonly used as the semiconductor substrate and they are interchangeable.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung K. Vu whose telephone number is (571) 272-1666. The examiner can normally be reached on Mon-Thurs 6:00-3:30, alternate Friday 7:00-3:30, Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on (571) 272-1732. The Central Fax Number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Vu

January 3, 2005

Hung Vu

Primary Examiner